§ 460.19 Crew waiver of claims against U.S. Government.

Each member of a flight crew and any remote operator must execute a reciprocal waiver of claims with the Federal Aviation Administration of the United States Government.

§ 460.13 Smoke detection and fire suppression.

An operator or crew must have the ability to detect smoke and suppress a cabin fire to prevent incapacitation of the flight crew.

§ 460.15 Human factors.

An operator must take the precautions necessary to account for human factors that can affect a crew’s ability to perform safety-critical roles, including in the following safety-critical areas—

(a) Design and layout of displays and controls;
(b) Mission planning, which includes analyzing tasks and allocating functions between humans and equipment;
(c) Restraint or stowage of all individuals and objects in a vehicle; and
(d) Vehicle operation, so that the vehicle will be operated in a manner that flight crew can withstand any physical stress factors, such as acceleration, vibration, and noise.

§ 460.17 Verification program.

An operator must successfully verify the integrated performance of a vehicle’s hardware and any software in an operational flight environment before allowing any space flight participant on board during a flight. Verification must include flight testing.

§ 460.9 Informing crew of risk.

An operator must inform any individual serving as crew that the United States Government has not certified the launch vehicle and any reentry vehicle as safe for carrying flight crew or space flight participants. An operator must provide this information—

(a) Before entering into any contract or other arrangement to employ that individual; or
(b) For any crew member employed as of December 23, 2004, as early as possible and prior to any launch in which that individual will participate as crew.

§ 460.11 Environmental control and life support systems.

(a) An operator must provide atmospheric conditions adequate to sustain life and consciousness for all inhabited areas within a vehicle. The operator or flight crew must monitor and control the following atmospheric conditions in the inhabited areas or demonstrate through the license or permit process that an alternate means provides an equivalent level of safety—

(1) Composition of the atmosphere, which includes oxygen and carbon dioxide, and any revitalization;
(2) Pressure, temperature and humidity;
(3) Contaminants that include particulates and any harmful or hazardous concentrations of gases, or vapors; and
(4) Ventilation and circulation.

(b) An operator must provide an adequate redundant or secondary oxygen supply for the flight crew.

(c) An operator must

(1) Provide a redundant means of preventing cabin depressurization; or
(2) Prevent incapacitation of any of the flight crew in the event of loss of cabin pressure.

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(1) Ensure that any crew-training device used to meet the training requirements realistically represents the vehicle’s configuration and mission, or
(2) Inform the crew member being trained of the differences between the two.

(c) Maintenance of training records. An operator must continually update the crew training to ensure that it incorporates lessons learned from training and operational missions. An operator must—

(1) Track each revision and update in writing; and
(2) Document the completed training for each crew member and maintain the documentation for each active crew member.

(d) Current qualifications and training. An operator must establish a recurrent training schedule and ensure that all crew qualifications and training required by § 460.5 are current before launch and reentry.